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SCHWEGMAN, LUNDBERG & WOESSNER/OPEN TV P.O. BOX 2938 MINNEAPOLIS, MN 55402-0938			EXAMINER SHANG, ANNAN Q	
			ART UNIT 2424	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary

Application No.

09/834,375

Applicant(s)

WOLZIEN, THOMAS R.

Examiner

ANNAN Q. SHANG

Art Unit

2424

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 February 2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19, 22, 24, 26-39, 41-78, 127-132, 147, 149, 171-173 and 177-180 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-19, 22, 24, 26-39, 41-78, 127-132, 147, 149, 171-173 and 177-180 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 02/06/09
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-16, 18, 19, 22, 24, 26-39, 41-74, 78, 127-132, 147, 149, 171-173 and 177-180 are rejected under 35 U.S.C. 102(e) as being anticipated by **Treyz et al (6,526,335)**.

As to claims 1-2, note the **Treyz** reference figures 1-2, 56 and 57, discloses automobile personal computer systems and further discloses a system for expediting transactions to acquire offerings from a provider, the system comprising:

A receiver for receiving a programming signal and an address associated with the provider of the offerings, the programming signal including information about the offerings (Wireless Receiver/Transmitter 'R/T' or Wireless Communications Circuitry (WCC) 306 of Automobile Personal Computer (APC) 14 'a user system,' figs. 1, 13, col. 10, line 35-col. 11, line 1+, includes Antenna 54, 58, etc., 'fig. 2' Base Station, receives Data broadcast sources, local wireless and wire networks and with various services transmitted from a Service Provider, Merchant, Broadcasting Station, etc., (SP) 'a

provider system,' or 'a data processing center,' via wireless links, such as, Internet, terrestrial base stations, satellite signals from GPS, radio and data broadcast, etc., or physical wiring such as, cables, coaxial cable, buses, optical fibers, etc., (col. 13, lines 3-12), where the received services or data signals includes an address associated with the SP (col. 11, line 1-col. 12, line 1+, col. 17, lines 29-40, col. 39, lines 48-62, col. 58, line 47-col. 61, line 23 and line 46-col. 62, line 12), note that APC-14 is any device such as, a computer system or any device, such as PDA, laptop, palm-size computer, cellular telephone, wrist watches, with built-in computing capabilities (col. 10, lines 23-38) and receives e-mail, voice, paging, text, streaming audio or video program, etc.;

APC 14 includes a decoder "a controller" (col. 13, lines 38-51, col. 22, lines 1-19 and col. 66, lines 13-19), which is connected to R/T for decoding the address, note that APC-14 decodes streaming Internet audio, voice..., compressed digital video, streaming Internet multimedia content, etc., and upon a user interacting to the content (which contains specific service/content provider address), Automobile PC-14 Pro-72, uses the address information to establish a link, to the service/content provider with the address and receives driving directions to the location of the service/content provider;

The claimed "a user interface..." is met by Front-Panel (FP) 256 (figs. 8-11 and col 18, lines 9-40), which includes Display 270, a touch screen, where the user interacts and enters commands to access information related to the offerings;

The claimed "communication unit for establishing a link..." is met by Processor(s) (Pro) 72 (col. 13, lines 38-50), which establishes a link, upon receiving the user command, with a service/content provider "an information source" with the address (col.

33, lines 6-49 and col. 61, line 46-col. 62, line 12);

The claimed "an identification system..." is met by APC-14 "a transaction processing system," "information processing system or reader" (col. 22, lines 10-19, line 54-col. 23, line 16, col. 53, line 60-col. 54, line 29) which includes Processor 72 for communicating a user's identity to the service provider, and executes interactive prompts (col. 12, lines 21-29) to the user from the service provider for the acquiring or purchasing products or goods and services by the user from the provider, and enables the user to performing financial transactions (col. 45, line 23-col. 46, line 1+), for enabling user's identity to be determined based on arriving at a destination location associated with the address, furthermore the a GPS Receiver 112 (col. 31, lines 16-30 and col. 33, lines 6-49) determines the location of the user and communicates information to APC-14 Processor 72 to acquire the necessary information to nearby service providers; the user can further make a hotel reservation and upon arrival to hotel in person, the user provides a credit card, which verifies the user identify, for the necessary services or transactions (col. 46, line 30-col. 47, line 16),

where the address is embedded in the programming signal (col.39, line 48-col.40, line 13, col.13, lines 44-51, col.15, lines 64-col.16, line 16 and col.21, line 60-col.22, line 9) note that APC-14 handles various types of content, such as e-mail, voice mail, paging messages, voice memos, audio or video files, images, etc., receives and decodes Internet audio, voice, compressed digital video, streaming Internet multimedia content, etc., and communicates to services providers, merchants, hotels, (information source) etc., receiving/transmitting email messages, where the email page (the received

packet) includes an embedded address(es), images, video, etc., "programming signal" which are decoded accordingly and displayed on the APC-14.

Treyz further discloses an identification system for enabling user's identity to be determined based on arriving at a destination location associated with the address, where the address is embedded in the programming signal, and where the user's identity is determined after the user having selected at least one offering from the provider (col.42, lines 10-65, col.45, line 23-col.46, line 49, col.50, line 56-col.51, line 18, col.52, line 64-col.54, line 29 and col.61, line 1-col.63, line 34), note that the system permits a user's identity to be verified either at the user device or at the service provider server and further permits the user device to automatically dial-up and number to order services (food, lodging, etc.) from nearby merchant, hotel reservation, etc. and assigns an account number for the user after the user makes a reservation or orders a product or goods.

As to claim 3, Treyz further discloses where the E-signal is a radio broadcast signal and data broadcast signal (col. 11, 5-10 and col. 12, lines 21-45).

As to claim 4, Treyz further discloses the E-signal comprises, at least one selected from an audio, video and combined audio and video signals (col. 13, lines 38-51).

As to claim 5, Treyz further discloses where the E-signal is received from a storage device 80 (col. 13, line 38-col. 14, line 21 and col. 35, lines 22-25).such as: digital versatile disk, compact disk, video cassette player, magnetic tape, hard disc drive, optical storage, magnetic storage, Memory Stick, Memory card, write/rewritable

CDROM and DVD ROM (col. 14, lines 1-18, line 66-col. 15, line 13 and col. 16, lines 37-59)

As to claim 6, Treyz further discloses where the E-signal is received from storage, such as digital versatile disk, etc., (col. 13, line 38-col. 14, line 21 and col. 35, lines 22-25).

As to claims 7-8, Treyz further disclose where APC-14 stores user information, such as user ID, payment, location, preferences, etc., (col. 30, line 25-col. 31, line 15), are utilized to expedite the acquiring of goods/services by the user from the provider (col. 32, lines 13-27).

As to claims 9-13, Treyz further discloses where the user information is communicated to the provider prior to arrival of the user at a destination location (col. 32, lines 13-54), provider at the time of arrival of the user at a destination, communicated to the provider electronically or verbally (col. 38, lines 20-34 and line 55-col. 39, line 1+), to receive the goods and services (col. 45, line 23-col. 46, line 43 and col. 61, line 46-col. 62, line 17).

As to claims 14-15, Treyz further discloses communicating to the provider via wireless signal upon arrival to the destination and where the wireless comprises a MOTES signal (col. 62, lines 12-17).

As to claim 16, Treyz further discloses the E-Signal, such as e-mail, voice, paging, text, audio or video program, etc., are received via wireless links (Internet, terrestrial base stations, satellite signals from GPS, radio and data broadcast, col. 11, line 1-col. 12, line 1+) and where the GPS receiver uses the signals received to

determined the current locations of APC-14.

As to claim 18, Treyz further discloses the E-Signal contains an audio program and the system comprises at least one speaker for presenting the audio program (col. 34, lines 57-65).

As to claim 19, Treyz further discloses where the E-signal contains a video program and the system comprises a display or FP-256 for presenting the video program (col. 18, lines 9-33 and col. 21, line 60-col. 22, line 1+).

As to claim 22, Treyz further discloses is associated with online information provider (col. 21, line 60-col. 22, line 1+).

As to claim 24, Treyz further discloses where the APC-14 comprises an address extractor, in communications with the receiver, which extracts the address from the programming signal and an indicator signal generator, which upon receipt of the address generates an indicator signal (col. 28, lines 44-63, col. 34, lines 54-65, col. 35, lines 29-53 and col. 36, lines 35-59).

Claim 26 is met as previously discussed with respect to claim 1.

As to claims 26-27, Treyz further discloses where GPS is a differential GPS (col. 11, lines 38-67), which receives GPS satellite signals, correcting errors and determines the current location and the location closets to the current location (col. 31, lines 22-48 and col. 53, lines 15-40), using street address, an intersection, latitude and longitude and measurement of time, etc., (col. 33, lines 6-30).

As to claim 28, Treyz further discloses where the user interface comprises a HUD unit, voice commands recognition device, speaker, keypad, etc., (col. 13, line 38-

col. 14, line 2 and col. 15, lines 28-43).

As to claim 29-31, Treyz further discloses where the additional information includes a menu of options provided by the provider, for the goods and services, and available for selections by the user, using a touch screen display interface (col. 20, lines 13-47, col. 21, line 60-col. 22, line 19 and col. 22, lines 10-34)

As to claim 32-34, Treyz further discloses where the provider is co-located at a destination location, where the provider is remote to a destination location and provider receives an order form the user for at least goods and service and communicates the order to as affiliate at the destination location for fulfilling (col. 45, line 23-col. 46, line 1+, col. 59, lines 32-45 and col. 61, line 46-col. 62, line 17) and where the order is received over an Internet link (col. 58, lines 11-67).

As to claim 35, the claimed "a method of expediting a provisioning of goods/services to a user at a destination location...comprising" contains the same structural elements as rejected claim 1 above.

Claim 36 is met as previously discussed with respect to claim 3.

Claim 37 is met as previously discussed with respect to claim 4.

Claim 38 is met as previously discussed with respect to claim 1, the claimed generating an indications to the user of additional information is met as previously discussed with respect to claim 24.

Claim 39 is met as previously discussed with respect to claim 1.

Claim 41 is met as previously discussed with respect to claim 16.

Claim 42 is met as previously discussed with respect to claim 16.

Claim 43 is met as previously discussed with respect to claim 6.

Claim 44 is met as previously discussed with respect to claim 23.

Claim 45 is met as previously discussed with respect to claim 16

Claim 46 is met as previously discussed with respect to claim 16.

Claim 47 is met as previously discussed with respect to claim 4.

Claim 48 is met as previously discussed with respect to claim 31.

Claim 49 is met as previously discussed with respect to claim 5.

Claim 50 is met as previously discussed with respect to claim 8.

Claim 51 is met as previously discussed with respect to claim 6.

Claim 52 is met as previously discussed with respect to claim 6.

Claim 53 is met as previously discussed with respect to claim 1.

Claim 54 is met as previously discussed with respect to claim 18.

Claim 55 is met as previously discussed with respect to claim 1.

Claim 56 is met as previously discussed with respect to claim 1.

As to claim 57, Treyz further discloses where APC-14 further comprises a device compatible with navigation system selected from the group consisting of: Distance Measuring Equipment which utilizes transmissions and radials including time changes and frequency changes to determine locations, Loran, radio frequency triangulation, intersection of radio signals with radials, and 911 based locations identification (col. 33, lines 6-30, col. 44, lines 27-42).

As to claims 58-59, Treyz further discloses where GPS receiver 112 receives GPS and DGPS satellite signals, correcting errors and determines the current location

of the receiver based upon the GPS satellite (col. 11, lines 38-67 and col. 33, lines 6-30).

Claim 60 is met as previously discussed with respect to claim 16.

Claim 61 are met as previously discussed with respect to claims 26-27.

As to claims 62-63, Treyz further discloses where APC-14 analyzes the Map data, determines which of the various locations of the destination is nearest to the current location, and selects a location nearest to the current location as the destination, by eliminating from the lists destinations not closer to the current location of APC-14, where the nearest location determined based upon commuting distance, based upon commuting distance, based upon commuting time and where APC-14 analyzes the Map data, calculates an estimated time of travel from the current location to the locations in the Map data and selects as the destination the location with the shortest estimated time of travel (col. 31, lines 22-48, col. 53, lines 15-40, col. 61, line 46-col. 62, line 11 and col. 86, line 27-col. 87, line 17) and transmitting a Map direction "result of the determination" to the APC-14, note that the user can selected favorite restaurant the MAP data provides the user with the shortest and quickest route to the user's current location.

As to claim 64, Treyz further discloses where the Processor of APC-14, which accesses the user's identify, is compatible with APC-14 which enables the user's identify and payment information to be automatically determined upon arrival of the user at the destination (col. 22, lines 10-19, line 54-col. 23, line 16, col. 53, line 60-col. 54, line 29).

Claim 66 is met as previously discussed with respect to claim 7.

Claim 67 is met as previously discussed with respect to claim 9.

Claim 68 is met as previously discussed with respect to claim 10.

Claim 69 is met as previously discussed with respect to claim 11.

Claim 70 is met as previously discussed with respect to claim 12.

Claims 71-72 is met as previously discussed with respect to claims 62-63

As to claims 73-74, Treyz further discloses S-80 "data storage device" stored locally at APC-14, containing at least data that identifies each of the Map data by an address, a look-up table, where the address identifies a location of the Map data storage device, containing direction finding software for determining directions between two locations and a map software, where APC-14 utilizes the direction finding software in generating directions from the current location to the destination and overlays a map of the APC-14 display (col. 13, lines 58-67, col. 33, lines 25-30, col. 53, lines 15-40, col. 61, line 46-col. 62, line 11 and col. 86, line 27-col. 87, line 17).

As to claim 78, the claimed "a computer readable medium containing instructions for expediting a provisioning of goods/services to a user at a destination location...comprising" contains the same structural elements as rejected claim 1 above.

As to claim 127, the claimed "a computer system for expediting the provisioning of...comprises..." contains the same structural element as rejected claim 1.

As to claim 128, Treyz further teaches where Pro 72 controls the operation of WCC 306 or modem of APC-14 (col. 13, lines 38-50, col. 24, lines 56-60 and col. 26, lines 37-48)

Claim 129 is met as previously discussed with respect to claim 16.

Claim 130 is met as previously discussed with respect to claims 26-27.

Claim 131 is met as previously discussed with respect to claim 15.

Claim 132 is met as previously discussed with respect to claim 8.

As to claims 147-148, the claimed "a method...comprising..." contains the same structural element as rejected claim 1.

Claim 149 is met as previously discussed with respect to claims 26-27.

Claim 150 is met as previously discussed with respect to claims 57.

As to claims 171-172, the claimed "a method for expediting the provisioning of at least one good/service...comprising:" contains the same structural element as rejected claim 1.

Claim 173 is met as previously discussed with respect to claim 38.

As to claims 177-178, the claimed "a system utilized to provide a good/service to a user based upon the reception of an address...comprising:" contains the same structural element as rejected claim 1.

Claims 179-180 are met as previously discussed with respect to claims 26-27.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Treyz et al (6,526,335)** as applied to claim 16 above, and in view of **Merchant (6,240,183)**.

As to claim 17, Treyz fails to explicitly teach where wireless telecommunication link and electronic signal are encrypted.

However, **Merchant** teaches encrypting electronic signals in a wireless communication system.

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teaching of **Merchant** into the system of Treyz to provide network security and communicate information to appropriate user.

8. Claims 75-77, are rejected under 35 U.S.C. 103(a) as being unpatentable over **Treyz et al (6,526,335)** as applied to claim 35 above, and in view of **Hiyokawa et al (6,047,235)**.

As to claims 75-76, Treyz further teaches monitoring a location of a user of APC-14 (col. 35, lines 54-60), but silent as to explicitly teaching generating an indicator signal when the user deviates from a direction provided to the user, the direction indicating a preferred route from the current location to the destination location, and generating a second set of directions from a new current location to the destination location and providing the second set of directions to the user.

However, note the **Hiyokawa et al** reference figures 1 and 7, disclose vehicular navigation system for inputting/outputting information relating to route guidance, current position detection unit 2 for detecting or receiving information relating to current position

of a vehicle of a user, storing navigation data necessary for route determination and monitors and stores route data and locations of the user as the user travels from the current location to the destination, generating an indicator signal when the user deviates from the directions, generating a second set of directions from the user's new location to the destination, and providing the directions to the user (col. 5, lines 43-63 and col. 11, lines 38-63).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teaching of Hiyokawa into the system of Treyz to provide a audio-visual guidance data, as a help enhancement data to assist the user and direct the user to the desired destination and generate a second set of directions from the user's new location to the destination to enable user to obtain Map directions from any location to the desired destination.

As to claim 77, Treyz fails to explicitly teach accessing a database of frequent locations visited by the user and selecting a frequent location from the database, determine directions from the destination to a selected frequent location and providing the directions to the user.

However, Hiyokawa teaches monitoring and storing traveling routes and locations visited by the user and which enables a user to follow the same directions to original location or a specific location, where the data can be retrieve at anytime upon the user request and retrace the route back to a starting point or a specific location(s) (col. 5, lines 43-63 and col. 11, lines 38-63).

Therefore it would have been obvious to one of ordinary skill in the art at the time

of the invention to incorporate the teaching of Hiyokawa into the system of Treyz, store the travel route data and retrieve at anytime, to retrace the route to the user's starting point or to specific or frequent locations visited by the user.

Response to Arguments

5. Applicant's arguments with respect to the amended claims have been considered but are moot in view of the new ground(s) of rejection discussed above.

With respect to the rejection of the last office action mailed 10/06/08, Applicant amends claims and further argues that the prior arts of record do not teach the amended claims limitations (see page 22+ of Applicant's Remarks).

In response, Examiner disagrees. Examiner notes Applicant's arguments, however, Treyz teaches Automobile personal computer (APC) 14 which includes a GPS (figs.1-4, col.11, lines 38-55) location determination system and also Map Database (col.33, lines 25-30) for driving directions and handles various types of content, such as e-mail, voice mail, paging messages, voice memos, audio or video files, images, etc. (see col.39, line 48-col.40, line 13), receives and decodes Internet audio, voice, compressed digital video, streaming Internet multimedia content, etc., (col.13, lines 44-51 and col.21, line 60-col.22, line 9). Treyz further discloses APC-14 communicates to services providers, merchants, hotels, (information source) etc., receiving/transmitting email messages, where the email page (the received packet) includes an embedded address(es), images, video, etc., "programming signal" which are decoded accordingly and displayed on the APC-14 (col.15, lines 64-col.16, line 16, col.20, lines 13-29, col.34,

line 57-col.35, line 60 and col.36, line 35-59). APC-14 receives the email signals, decodes the address, image, video, etc., (data) within the email signal and communicates to the service provider to acquire goods/services using the information received in the programming or email signal. Treyz further teaches discloses an identification system for enabling user's identity to be determined based on arriving at a destination location associated with the address, where the address is embedded in the programming signal, and where the user's identity is determined after the user having selected at least one offering from the provider (col.42, lines 10-65, col.45, line 23-col.46, line 49, col.50, line 56-col.51, line 18, col.52, line 64-col.54, line 29 and col.61, line 1-col.63, line 34). Treyz's system permits a user's identity to be verified either at the user device or at the service provider server and further permits the user device to automatically dial-up and number to order services (food, lodging, etc.) from nearby merchant, hotel reservation, etc. and assigns an account number for the user after the user makes a reservation or orders a product or goods. Hence the amendments to the claims do not overcome the prior arts of record as discussed above. **This office action is made final.**

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Annan Q. Shang** whose telephone number is **571-272-7355**. The examiner can normally be reached on **700am-400pm**.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Christopher S. Kelley** can be reached on **571-272-7331**. The fax phone number for the organization where this application or proceeding is assigned is **571-273-8300**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the **Electronic Business Center (EBC) at 866-217-9197 (toll-free)**. If you would like assistance from a **USPTO Customer Service Representative** or access to the automated information system, **call 800-786-9199 (IN USA OR CANADA) or 571-272-1000**.

/Annan Q Shang/

Primary Examiner, Art Unit 2424

Annan Q. Shang